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NAVAL AIR STATION FORT WORTH JRB CARSWELL FIELD TEXAS

ADMINISTRATIVE RECORD COVER SHEET

AR File Number __/59

File: 17A-37 D.B.



JENVIRONMENTALGROUP A Division of Rerry Williams inc

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Airgini (Len

Mr. Mark Strongers
Fore Worth District



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Office (806) 373-5820 Toll Free 1-800-445-1249 FAX (806) 371-0340

PETROLEUM STORAGE TANK REMOVAL & INITIAL SITE ASSESSMENT

BX Service Station Building #1518

TWC Facility #0009696 LPST #104524 Owner ID #04532

Zone #3 Contract #DACA63-92-D-0046 Delivery Order #0002

Prepared for: U.S. Army Corps of Engineers

Mr. Mark Simmons Fort Worth District

Mr. Todd Smith Fort Worth, Texas

Prepared by: Larry Cunyus WC Environmental Group

July 26, 1993

P.O. Box 30206 • Amarillo, Texas 79120



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REPORT SUMMARY

This report covers Perry Williams, Inc. (PWI) operations in May 1993, at Carswell Air Force Base, Fort Worth, Texas. This work was performed under U.S. Army Corps of Engineers Contract #DACA63-92-D-0046, Delivery Order #0002. The Texas Water Commission (TWC) Owner I.D. for this site is #04532 and the TWC Facility I.D. is #0009696. The TWC assigned LPST #104524 to this site. Mr. Todd Smith was the assigned Project Engineer for the U.S. Army Corps of Engineers (Corps).

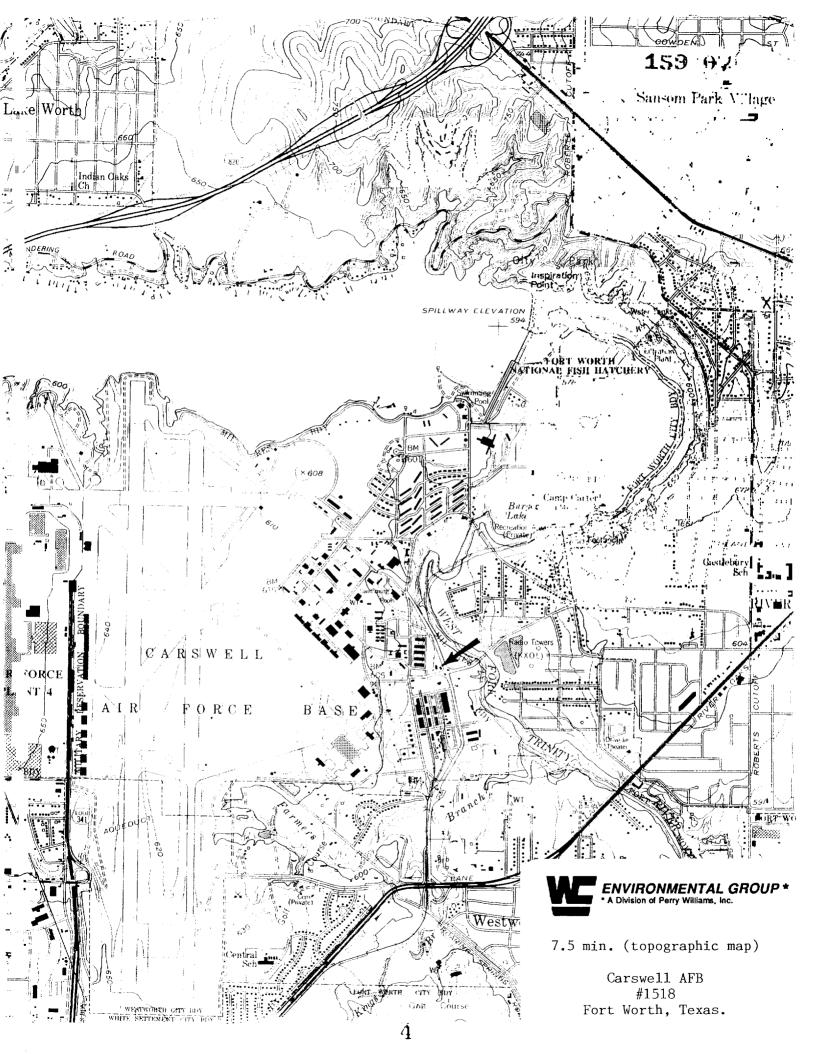
The scope of work for this Delivery Order consisted of removal of four (4) 10,000 gallon underground storage tanks (UST's), removal of associated piping adjacent to the tanks, and the disposal in-place of the remaining piping associated with the UST's. Backfilling, site restoration, testing, and reports at the BX Service Station, Building #1518 were also required under the aforementioned contract.

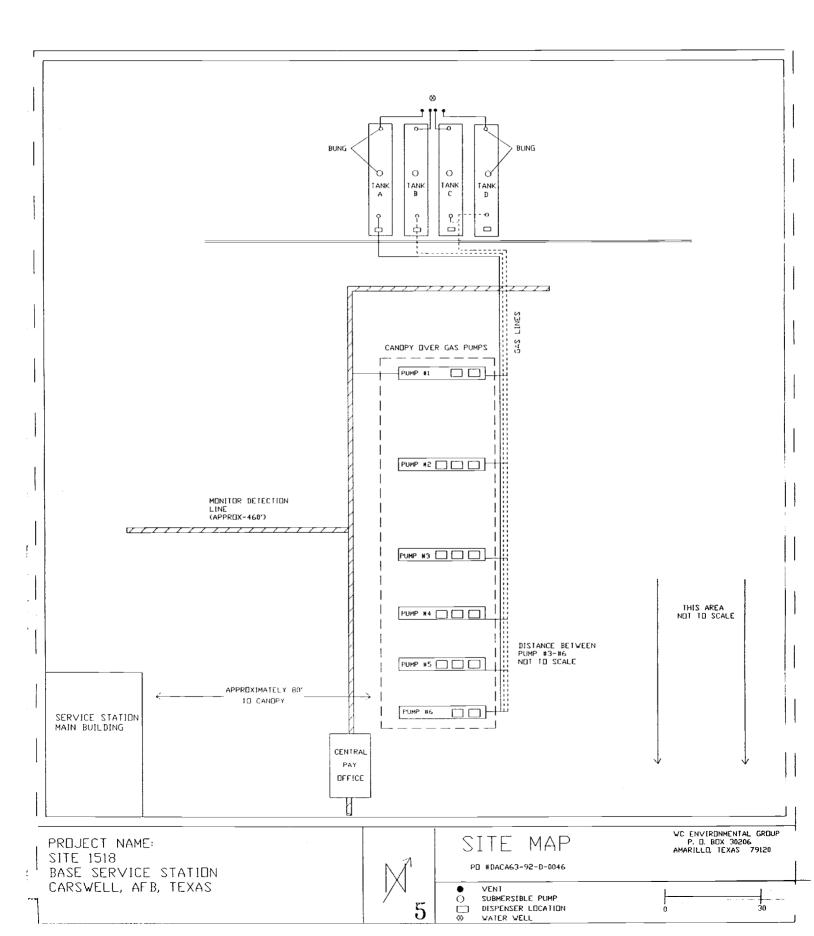
The purpose of this work was to remove four tanks as quickly as possible. The intent was not to achieve a "clean closure", but rather to remove the sources that were a possible source of petroleum releases into the nearby Trinity River. Mr. Todd Smith, Project Engineer, directed that the backfilling of the tankhold be accomplished by placing exhumed tankhold stockpile soils back into the excavation. A 20 mil liner was placed on top of the backfill and the excavation was topped off with topsoil. Mr. Tom Knode, TWC representative, approved the aforementioned (Corps) directive.

All UST's were removed by May 12, 1993. All appropriate in-situ, exhumed stockpile, and groundwater samples were collected, shipped and analyzed by Chemron Labs in San Antonio, Texas. As per contract requirements, soils were analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH), Benzene, Toluene, Ethylbenzene, Xylene (TBTEX) and Total Lead.

CHRONOLOGY OF EVENTS

1972 - 1973	Four (4) 10,000 gallon fiberglass tanks were installed at BX Service Station, Builling #1518.
04-30-93	PWI issued construction notification to TWC office, Duncanville, Texas.
05-10-93	PWI personnel mobilize to job site.
05-11-93	PWI personnel began to exhume Tank D (east tank). Tank D floated due to groundwater at approximately 6'. Tank D was pulled to prevent tank from rolling and spilling any tank residue.
05-12-93	Tanks A, B, & C were removed. Appropriate in-situ, stockpile and groundwater samples were collected and shipped to Chemron Laboratories in San Antonio, Texas. Texas Water Commission (TWC) representative, Mr. Tom Knode was on-site for tank removal and issued directive (see Appendix H).
05-13-93	Mobley Company arrived on site and removed 100 gallons of fluid from the four tanks. All four tanks were purged with dry ice and appropriate readings for Lower Explosion Limit (LEL), and Oxygen were taken. S & H Tank Company transported all four tanks off-site and issued certificate's of destruction. PWI personnel placed exhumed stockpile material into tankhold.
05-14-93	A 20 mil liner (35' x 40') was placed in tankhold before implacement of imported backfill material.
05-15-93	Holder Trucking delivered 216 cubic yards of imported backfill material.
05-18-93	Holder Trucking removed 24 cubic yards of concrete generated by tank top removal.
05-20-93	Holder Trucking delivered 36 cubic yards of topsoil
05-21-93	PWI personnel dug trench for 50 feet of new curb and gutter. Tankhold area was topped off with topsoil in preparation for turfing operation. Corps gave PWI verbal acceptance of work performed at Site #1518.
05-22-93	Topsoil was raked over tankhold area and grass planted. New curb and gutter was poured and finished.





SAMPLE TESTING RESULTS/ SOIL AND WATER

Delivery Order No.: 0002

Sampler: Larry Cunyus

- .1 ppm Lead 25.37 ppm BTEX udd TRPH 14. Matrix Water Field Description CAFB-1518-EXW Lab ID# 27343 5-12-93 Date

SAMPLE TESTING RESULTS/ SOIL AND WATER

Delivery Order No.: 0002

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Sampler: Larry Cunyus

Hď	6.7	į						
TDS	780. mg/l							
TOX	1.3 mg/kg							
Matrix	Water							
Field Description	CAFB-1518-EXW							
Lab ID#	27343							
Date	5-12-93							

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SAMPLE TESTING RESULTS/ SOIL AND WATER

Delivery Order No.: 0002

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Sampler: Larry Cunyus

wdd mdd mdd mdd udd mdd mdd mdd udd mdd wdd wdd 5.1 ppm Lead 5.0 5.2 5.5 5.5 5.1 5.3 5.1 5.5 10. 10. 15. 11. v v v mdd mdd mdd mdd mdd mdd <2.4 ppm 64.0 ppm <2.4 ppm <2.4 ppm <2.4 ppm 19.5 ppm 363.1 ppm BTEX <2.4 1.5 3.5 411.4 112. 1119. wdd wdd wdd 10. ppm uudd mdd mdd wdd udd mdd wdd wdd wdd TRPH 10. 10. 630. . 99 200. 44. 28. 19. 10. 64. 63. 10. Matrix Soil Field Description CAFF, - 1518 - D - NEW CAFB-1518-D-SEW CAFB-1518-A-NWW CAFB-1518-A-SWW CAFB-1518-A-SW2 CAFB-1518-A-SW CAFB-1518-A-NW CAFB-1518-B-NW CAFB-1518-B-SW CAFB-1518-C-NW CAFE-1518-C-SW CAFE - 1518 - D - NW CAFB-1518-D-SW #OI 27350 27355 27351 27352 27353 27354 27345 27346 27356 27347 27348 27349 27361 Lab 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 5-12-93 Date

QUALITY CONTROL TESTING RESULTS/ SOIL AND WATER

Delivery Order No.: 0002

: ...

Sampler: Larry Cunyus

< .1 ppm 5.5 ppm Lead N/Amdd <0.02 ppm < .03 ppm BTEX 99.2 wdd .5 ppm TRPH N/A41. v Matrix Water Water Soil Field Description CAFB-1518-D-NW/RB CAFB-1518-B-NW/QC Travel Blank Lab ID# 27342 27344 27360 5-12-93 5-12-93 5-12-93 Date

SAMPLE TESTING RESULTS/ SOIL AND WATER

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Zone: 2 Site: Carswell AFB #1518 Fort Worth Tx. Contract No.: DACA63-92-D-0046

Delivery Order No.: 0002

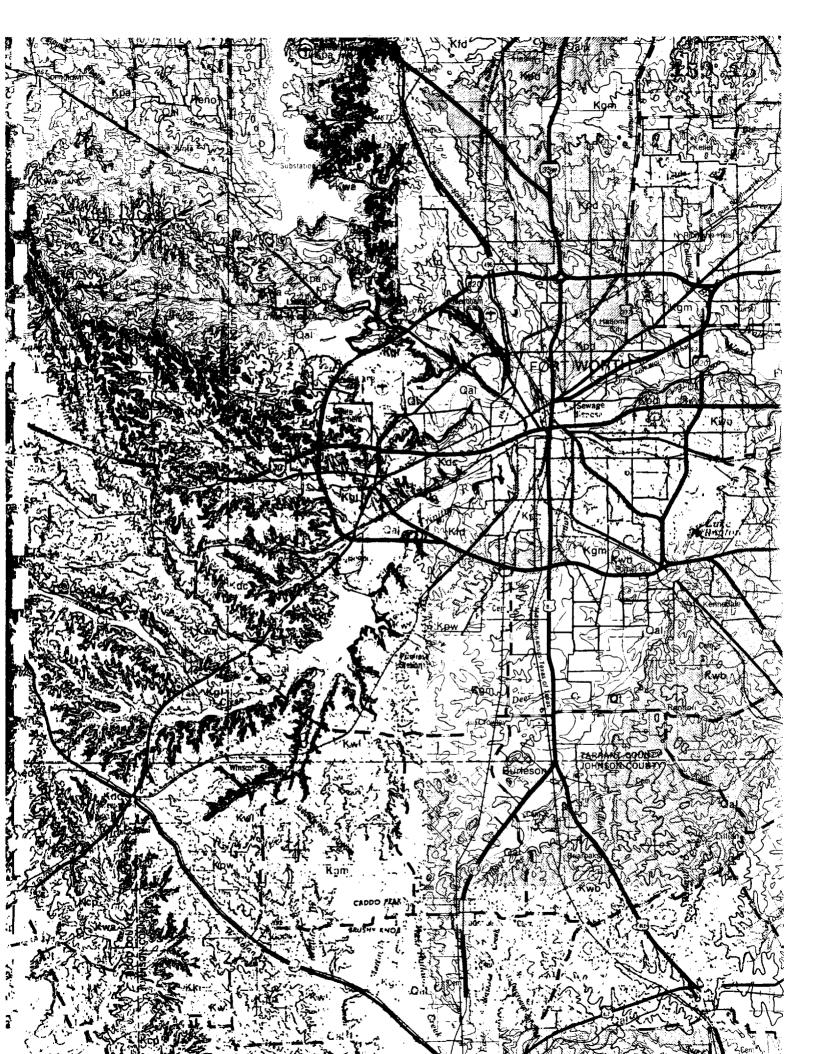
	T		اء	c c						
10 10 10 10 10 10 10 10	Lead	11. ppm	5.1 ppm	5.0 ppm	,					
· Action	BTEX	34.6 ppm	18.0 ppm	16. ppm						
1100	TKPH.	47. ppm	18. ppm	31. ppm						
	Matrix	Soil	Soil	Soil						
1	Field Description	CAFB-1518-SPA	CAFB-1518-SPB	CAFB-1518-SPC						
-	Lab ID#	27357	27358	27359						
	Date	5-12-93	5-12-93	5-12-93						

REGIONAL GEOLOGY AND HYDROGEOLOGY

The city of Fort Worth, Texas is centrally located in Tarrant County, a county of the north central part of the State. Tarrant County is situated on the eastern shelf of the Fort Worth basin, west of the Ouachita Fold Belt. The oldest stratigraphic units within the county are found exposed in the northwest corner with progressively younger strata to the southeast, toward the Gulf of Mexico. The rock units are representative of the late Cretaceous Age (see enclosed geologic map) and are composed of sandstone, marl, shale and fossilferous limestones.

During the late Cretaceous, deeper marine seas covered north central Texas, than had been present during the early Cretaceous. Large deposits of marine sediment created massive units of limestone and shale, which can be seen cropping out in this part of the State. These formations have largely determined the type of soil exposed at the surface and have influenced the kind and quality of the underlying aquifers.

The primary aquifers for Tarrant County are part of the important Trinity Group, the principal water-bearing group of rocks in the region. The group is divided into three main units, the Paluxy, Glen Rose and the Travis Peak. The Paluxy, the youngest water-bearing formation, crops out in the northwestern part of Tarrant County. It is generally, a sandstone, a secondary aquifer, and capable of furnishing water to households, small cities and various industries. Below the Paluxy lies the Glen Rose formation. It is generally a poorer reservoir, because of its calcareous nature. The next older unit, the Travis Peak is the primary aquifer for the region. It is generally composed of cretaceous-age deposits of sand and gravel with interbedded clay. Water from the Travis Peak is a very good quality and can be produced in sufficient quantities to supply large agricultural and urban needs.



SITE GEOLOGY/HYDROGEOLOGY

The BX Service Station, Site #1518 at Carswell Air Force Base in Fort Worth, Texas is located on the Fort Worth Limestone of the Lower Cretaceous. The site is west of the subsurface Ouachita Fold Belt. No known faults are present in the site area.

Depth to groundwater is 5 to 15 feet in this area of Fort Worth, as demonstrated by existing monitor wells on base. The hydraulic gradient is to the east toward the Trinity River some 800 yards away. Groundwater was encountered, at approximately 6 feet in this tankhold. Total dissolved solids (TDS) of 780 mg/l from a groundwater sample collected in the tankhold would seem to indicate that this water is groundwater.

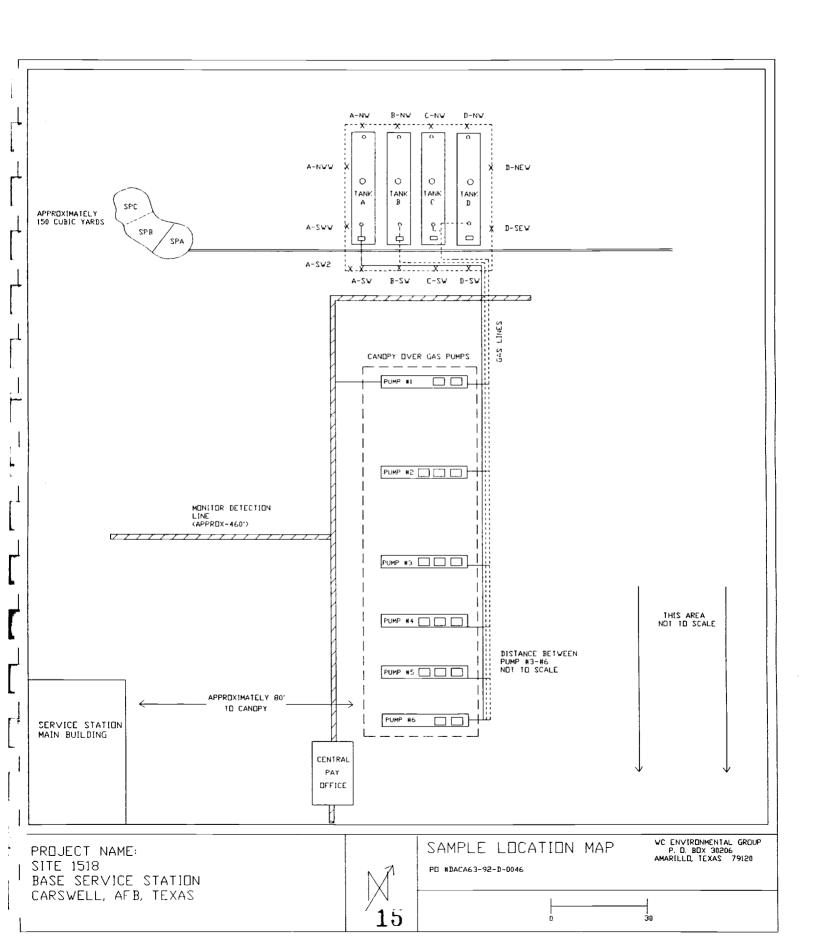
Soil Types

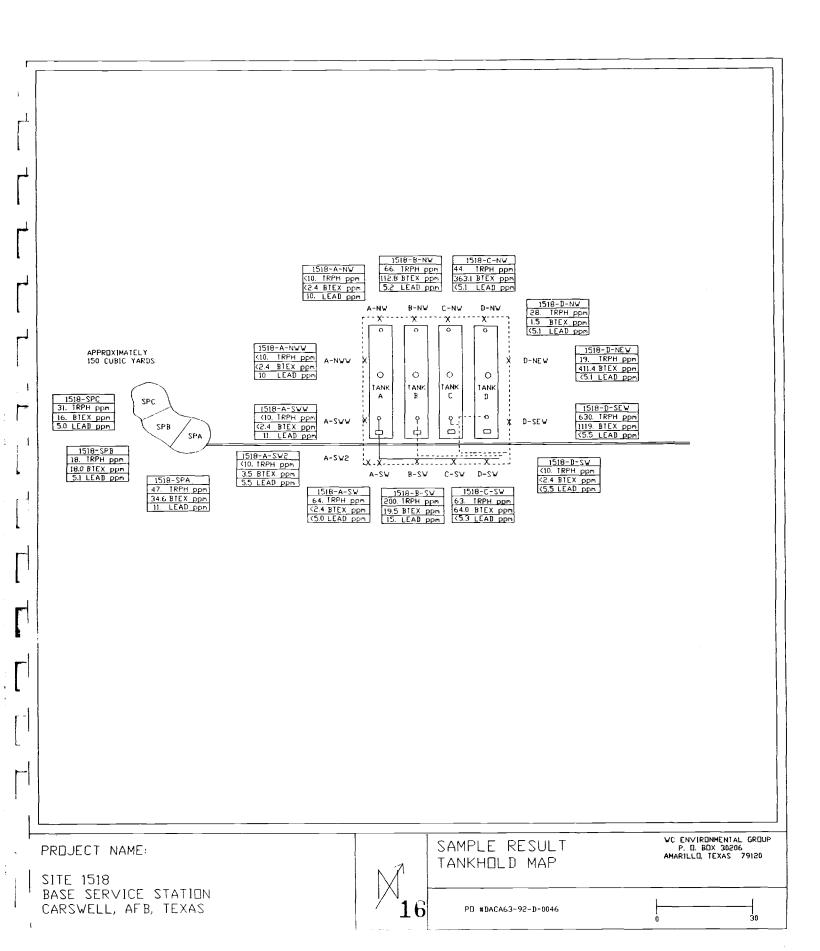
Reference to "Soil Survey of Tarrant County" produced by the United States Department of Agriculture's Soil Conservation Service, indicates the soil present on-site belongs to the Frio Urban association. This association makes up about 25 percent of Tarrant County. Typically, the surface layer of the Frio soil is moderately alkaline, very dark grayish brown silty clay about 15 inches thick. Underlying this horizon from 15 to 24 inches is a moderately alkaline dark grayish brown silty clay. Below this member from 24 to 80 inches is a moderately alkaline brown silty clay loam. The Frio soil is well drained. Permeability is moderately slow and available water capacity is high. The soils in this area are moderately suited to urban uses. The hazard of flooding, low strength affecting streets and roads, and corrosivity to uncoated steel are the main limitations associated with this soil group.

SITE SOIL ASSESSMENT AND REMEDIAL OPERATIONS

UST removal operations revealed some significant contamination present in the tankhold, specifically in the area of Tank D. A map showing the location of each sidewall sample and each stockpile sample and its identifying label is included (see sample location map). Contamination levels of 1100 ppm TBTEX and 630 ppm TRPH (Total Recoverable Petroleum Hydrocarbons) were revealed in soil sample #CAFB-1518-D-SEW. Tank B north wall and south wall samples, Tank C north wall, and Tank D northeast wall samples exhibited readings above the contract "action limits" of 100 ppm for TRPH and 30 ppm for TBTEX (see tabulated sample data).

As stated earlier in this report, the purpose of the removal operation was not to achieve a "clean closure" but to simply remove the tanks and the associated piping in a timely fashion. After the UST's were removed, backfilling was accomplished by placing excavated stockpile soils in the bottom of the tankhold. A 20 mil liner (35' x 40') was then placed over the reemplaced excavated soil. Above the liner, clean imported backfill was used to bring the excavated area back to original grade. No further remedial action was taken.





SAMPLE TESTING RESULTS/ SOIL AND WATER

Zone: 2 Site: Carswell AFB #1518 Fort Worth Tx. Contract No.: DACA63-92-D-0046

Delivery Order No.: 0002

	Lab TD#	Field Description	Matrix	НВВ	янях	ָר מ <u>י</u>
	ab ID#	Field Description	Matrix	ткрн	BTEX	Lead
	27345	CAFB-1518-A-NW	Soil	< 10. ppm	<2.4 ppm	10. ppm
	27346	CAFB-1518-A-NWW	Soil	< 10. ppm	<2.4 ppm	10. ppm
	27347	CAFB-1518-A-SWW	Soil	< 10. ppm	<2.4 ppm	11. ppm
	27348	CAFB-1518-A-SW	Soil	64. ppm	<2.4 ppm	< 5.0 ppm
	27349	CAFB-1518-B-NW	Soil	66. ppm	112. ppm	5.2 ppm
	27350	CAFB-1518-B-SW	Soil	200. ppm	19.5 ppm	15. ppm
	27351	CAFB-1518-C-NW	Soil	44. ppm	363.1 ppm	< 5.1 ppm
	27352	CAFB-1518-C-SW	Soil	63. ppm	64.0 ppm	< 5.3 ppm
1	27353	CAFB-1518-D-NW	Soil	28. ppm	1.5 ppm	< 5.1 ppm
	27354	CAFB-1518-D-NEW	Soil	19. ppm	411.4 ppm	< 5.T ppm
	27355	CAFB-1518-D-SEW	Soil	630. ppm	1119. ppm	< 5.5 ppm
	27356	CAFB-1518-D-SW	Soil	< 10. ppm	<2.4 ppm	< 5.5 ppm
	27361	CAFB-1518-A-SW2	Soil	< 10. ppm	3.5 ppm	5.5 ppm
J			7			

QUALITY CONTROL TESTING RESULTS/ SOIL AND WATER

Zone: 2 Site: Carswell AFB #1518 Fort Worth Tx. Contract No.: DACA63-92-D-0046

Delivery Order No.: 0002

Lead	N/A	1 ppm	5.5 ppm				, 1	-		
BTEX	03 ppm	<0.02 ppm	99.2 ppm							
TRPH	N/A	mdd 3. >	41. ppm							
Matrix	Water	Water	Soil							
Field Description	Travel Blank	CAFB-1518-D-NW/RB	CAFB-1518-B-NW/QC							
Lab ID#	27342	27344	27360							
Date	5-12-93	5-12-93	5-12-93							

SAMPLE TESTING RESULTS/ SOIL AND WATER

Delivery Order No.: 0002 Sampler:

Lead	11. ppm	5.1 ppm	5.0 ppm				4	t		
BTEX	34.6 ppm	18.0 ppm	16. ppm							
TRPH	47. ppm	18. ppm	31. ppm							
Matrix	Soil	Soil	Soil							
Field Description	CAFB-1518-SPA	CAFB-1518-SPB	CAFB-1518-SPC							
Lab ID#	27357	27358	27359							
Date	5-12-93	5-12-93	5-12-93							

SITE EXCAVATED SOIL ASSESSMENT

Excavated stockpile soil was sampled on a one (1) sample per fifty (50) cubic yard ratio. A total of three (3) stockpile samples were collected, composited, and shipped to Chemron Labs in San Antonio, Texas for lab analysis. Lab analysis indicated all samples were "clean", i.e. below 100 ppm TRPH and 30 ppm TBTEX (see stockpile map) except for sample #CAFB-1518-SPA which showed a concentration of 34.6 ppm TBTEX. Most of the TBTEX were from Xylene concentration levels of 33 ppm. Benzene, Toluene, and Ethylbenzene levels were in minute quantities of .4 ppm, .7 ppm, and .9 ppm respectively. The TBTEX value was 4.6 ppm over the "action limits" and was considered de minimis.

As directed by the Corps, all excavated stockpile soils were placed in the bottom of the tankhold. Analytical data as well as a site map are included in this report.

SITE GROUNDWATER/SURFACE WATER ASSESSMENT

Groundwater was encountered within the tankhold during tank excavation. As directed by Mr. Todd Smith, Corps representative, and Mr. Tom Knode, TWC representative, one groundwater sample was collected (see tabulated sample data). Lab analysis of the groundwater sample showed concentrations of 14 ppm for TRPH and less than .1 ppm Total Lead. This groundwater sample has a pH of 6.7. Lab analytical data revealed the quality of this groundwater contained 780 mg/l of Total Dissolved Solids (TDS). Furthermore, analysis showed TBTEX concentrations of 25.37 ppm, indicating groundwater impact by gasoline. As directed by the Corps and TWC, no further action was taken at the site concerning groundwater.

As discussed in the scope of work section on Delivery Order #0002, all four tanks were evacuated by Carswell personnel prior to PWI's arrival. Upon inspection of these tanks, before removal, the tanks were relatively empty. After removal of the tanks, Mobley Company removed 100 gallons of tank residue from the four tanks (see Appendix B).

Photo 1: Condition of site prior to tank removal. Carswell AFB #1518.

Photo 2: Condition of site prior to tank removal. Carswell AFB #1518.

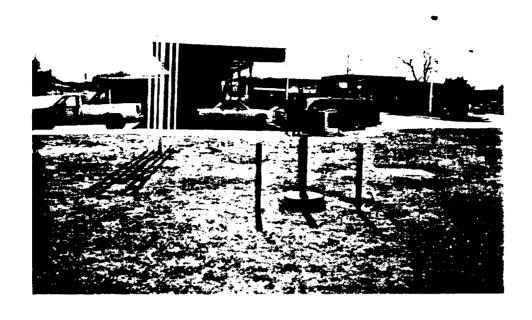




Photo 3: Tank C being pulled.

Photo 4: View of groundwater in tankhold D.





Photo 5: Tankhold with liner in place.

Photo 6: Tankhold with liner showing imported backfill being placed in tankhold.

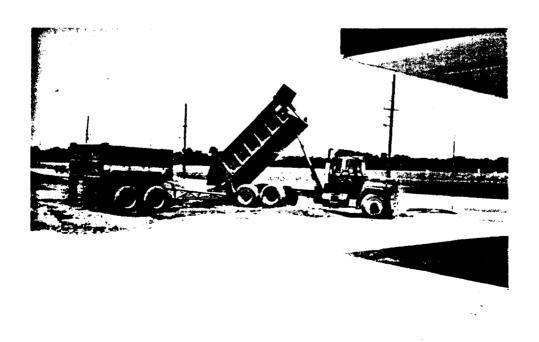




Photo 7: Backfilling tankhold with imported material.

Photo 8: Backfill material near completion.





WASTE MANAGEMENT AND DISPOSITION

A. <u>Tanks</u>: Four (4) UST's were removed from Building #1518. These tanks measured 8' by 30'. Total capacity for these tanks was calculated at 10,000 gallons.

Upon removal, these tanks were purged with dry ice before being transported off-site by S & H Tank Company. PWI was issued certificate's of tank destruction by S & H Tank Company (see Appendix A).

UST associated piping totaling 310 linear feet were capped and abandoned in-place while another 75 linear feet of associated piping was removed.

B. <u>Tank Contents</u>: 100 gallons of tank petroleum fluids were evacuated from the four tanks by Mobley Company (see Appendix B). These fluids are to be recycled through Mobley Company.

REFERENCES

- 1. United States Department of Agriculture Soil Conservation Service
 Soil Survey of Tarrant County, Texas; 1981
- 2. Texas Water Commission
 Groundwater Quality of Texas; March 1989

APPENDIX A

UST/AST Certificates of Destruction

	5-13-93		The state of the s		She 185	46.06+h 7x		PRICE	250.00 250.00	350.00	350.00
INVOICE	ш	P.O. NO. SOLD BY	CHECK NO.	CHARGE NO.	United A.R. force	Time of Job:	OYAL		V		
TANK CO., Inc.	Tank Destroyal's • Dry Ice • Petroleum - Dispersant	P.O. Box 219 • Venus, Texas 76084	1-800-824-6436	FAX: (214) 366-8684	200 ZXX Landowner Name:	Phone: 1-2/4-850-7626 - 806-678-9235-704	CERTIFICATE OF TANK DESTROYAL	DESCRIPTION	F. beRG/ASS		
	al's • Dry Ice	Box 219 • Ven	35	72	3030 6	110 TX		TANK SIZE	020101		
S & H	Tank Destroy	P.O. ⁻	Local: (214) 366-8685	Metro: (214) 263,7172	Contractor's Name: CCCC Address:	1-100 - 100 -	86 - 373. 582v	QUANTITY	4		

TERMS: NET 30 DAYS - PAST DUE ACCOUNTS SUBJECT TO 11/2% PER MONTH (18% PER ANNUM) SERVICE CHARGE. MINIMUM ORDER \$5.00. IN THE EVENT OF SUIT OR LEGAL ACTION, TO ENFORCE COLLECTION OF THE ABOVE, S & H TANK CO., INC. IS ENTITLED TO RECOVER REASONABLE ATTORNEY'S FEES.

TAX

AUTHORIZED SIGNATURE

CONTRACTOR NAME

SUBTOTAL

TO WHOM IT MAY CONCERN: TANKS TO BE DESTROYED FOR SCRAP

STANDARD FORM 7

TANK CLOSURE MATERIAL DISPOSAL FORM

PROJECT: UNDERGROUND STORAGE TANK REMOVAL	DAT	E5 - 13-93
WNER OR OPERATOR OF DISPOSAL FACILITY:		·
AME: S&H TANK, INC.		· · · · · · · · · · · · · · · · · · ·
DDRESS: P.O. BOX 219		
ITY, STATE, ZIP: VENUS, TEXAS 76084		
HONE: (214) 263-7172		
1 AME OF DISPOSAL FACILITY:		
AME: S&H TANK, INC.		
A.JDRESS: HWY 157 S.		
TY, STATE, ZIP: VENUS, TEXAS		
HONE: (214) 263-7172 F.ULER: 5H Tank, Inc.		
PE OF MATERIAL DISPOSED OF: SOIL		
A_PROXIMATE VOLUME OF MATERIAL RECEIVED: _	NONE	
PE OF CONTAINER: 4 10,000 gal. STEEL	Fiberg/ASS	
CONTAINERS LABELLED? X	YES	ทด
C RTIFIED TEST RESULTS ATTACHED: N/A	Α	
SPOSAL METHOD USED: SCRAP		
s all approvals required for the disp cerials as required by the U.S. Environm cer commission and the Texas Department	osal of hydrocar ental Protection	bon contaminated
[Zin	hie Tacu	
DISPOS Ar/R4/0190	SAL FACILITY AUTHO	ORIZED SIGNATURE

SF7-1

CERTIFICATE OF DESTRUCTION FOR USED PETROLEUM TANKS

ANON ALL MEN DI INESE PRESENIS:
That the undersignedS&H TANK, INC.
(NAME OF DISPOSER) Of HWY 157 S. VENUS, TEXAS
(ADDRESS OF DISPOSER) did on 5-/3-93 properly dispose of underground storage (DATE)
tank # 4-10,000 F. heRg/ASS
previously located at: OU-183- 172.0- Carrell
TEXAS , in accordance with API recommended
guidelines 1604, 2015, 2217 and other regulations as appropriate
by properly cleaning the interior of the tank, by properly dis-
posing of residual tank contents in accordance with all applic-
able local, State and Federal regulations, and by destroying
said tank by rendering it useless for the storage of petroleum o
other regulated substances through cutting or crushing; said
activity taking place at: S&H TANK, INC.
HWY 157 S. VENUS, TEXAS
(ADDRESS OF DISPOSAL FACILITY)
Executed on this 13 day of 71 Jung 19 9
By: Julie Sacrey Witness:
Title: PRESIDENT
Company: S&H TANK, INC.

ustforms

Quit Claim Deed for Underground Petroleum Storage Tanks

	KNOW ALL MEN BY THESE PRESENTS:
	That Coifed Sales of Korch, a BUSINESS having an office at an 183 flaw filloget . TEXAS EX (hereinafter called "Transferor"), and S&H TANK, INC. a CORPORATION (hereinafter called "Transferee"), agree as follows:
•	Transferor hereby sells, assigns and quit claims to Transferee, his (its) heirs, successors and assigns, all of the right, title and interest of Transferor in and to the following described property AS IS, WITHOUT ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF ANY KIND:
	. qal. STEEL
•	4-10,000 F. berglass
	TO HAVE AND TO HOLD said property unto Transferee, his (its) heirs, successors and assigns forever.
	The property conveyed hereunder is presently located on the premises at
, P.	ON. 183 - Main. of Worth TY: TEXAS
· ·	In consideration of said sale, Transferee agrees to defend, indemnify and hold Transferor, and Transferor's parent, subsidiaries and affiliates, harmless against all claims, losses and liability of every kind arising from the date hereof and arising from or related to the existence, removal, location, use or condition of said property.
<u></u>	Transferee further acknowledges that property is transferred for destruction purposes only and that all local, state and federal laws, codes and guidelines will be followed for its safe destruction. Transferee further recognizes that said equipment may contain harmful and explosive fumes and that extreme caution should be used when disposing of said equipment.
T	This instrument contains the entire agreement between the parties covering the subject matter.
T	Executed and delivered this 13 day of 10 ag 19 93
	By: Leky Williams In By: Wated Stitles Hickory (Transferor)
<u></u>	ATTEST:
	By: S&H TANK, INC. By: Challe Juce
•	As its PRESIDENT / (Transferse)

APPENDIX B

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Tank Contents Manifest

$\mathbb{A}^{p}_{p,k}(\mathcal{O}_$

UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT N o $~060680^{\circ}$ **MANIFEST**

	CHARACTERIZATION INFORMATION	15 9 42
	Generating Facility Name: Oursurd AFB.	
1	Generating Facility Address: Outdive 1519 ft Wouth	TA
	Business Name:	
:	Mailing Address:	
1	Telephone (8/7) 738.606 /	
	Telephone ($8/7$) 738.606 / Contractor Name/Contact: PWI .	
1	Process Generating the Fluid (Check the Appropriate Process/Fluid Type):	
-	Underground Storage Tank Remediation/Corrective Action ☐ Unleaded Gasoline ☐ Diesel ☐ Aviation Fuel ☐ Tank Hold Evacuation ☐ UST Monitoring Well Fluid ☐ UST Monitoring Well Fluid ☐ Maintenance of PST ☐ Unleaded Gasoline ☐ Unleaded Gasoline ☐ Unleaded Gasoline ☐ Unleaded Gasoline ☐ Diesel ☐ Aviation Fuel ☐ Fuel Oil	
] 1	Total Quantity (Gallons): Bulk (DO Drum Evacuation () I certify that the material removed from the above premises is not hazardous waste as identified in 40 CF not contain spent solvents or PCBs as identified in 40 CFR Part 761.	
]	Generator Representative (Print): TERRY LARSEN Title:	
	Representative (Print): FIERRY LARSEN Title: Signature: Lung Langue Date of Service: 5	113/92
	TRANSPORTER INFORMATION	
1	Name Mobley Co., Inc. Telephone 800-98	99-86 2 8
1	EPATransporter ID TXD000807925 State ID 40303 Truck No	/ ~
I	Driver's Name (Print) Docco NEL Sono Trucked Direct to Plant?	Y / (N)
	Date Driver's Signature	
$\overline{}$	MOBLEY COMPANY CORSICANA FUEL FACILITY	
	Address:2124 Highway 31 East	
ĺ	City/State: Corsicana, TX 75110	
[Felephone:903-874-1188	
ĺ	EPA IDTXD988059291 TWC Reg. No20095	
1	certify that I have received into this facility the above listed product.	
1	Facility Operator's Name (Print) DANNY 62/250N	
	5-13-93 Danny Sobran	
(-	Date Received Facility Operator's Signat	ure

White - Generator - Original

Canary - TSD

Pink - Transporter

Gold - Generator's 1st Copy

TWC

TWC LPST SITE DIRECTIVE DOCUMENTATION **159** 44 SITENAME CARRILLELL SITE ADDRESS \ LPST ID NO. TRACKING NO. INSPECTION DATE The purpose of this form is to document field communications made between the TWC and PST owners/operators/representatives. Scale Not to North | SITE DIAGRAM: PARKING SEPULCE STATION Show location(s) of original (replacement) tank(s), line(s), excavation, overexcavation, boring(s), monitor/observation well(s), etc. This site documentation is intended to identify the release response activities. Site-specific Corrective Action Directive (CAD) letters will be issued by the TWC following the reporting of a release. Regulatory guidance will be supplied by the TWC throughout the course of the project. This document reflects the assessment of site conditions by the TWC and is not intended to limit the scope of remediation necessary. In order to be reimbursed by TWC, an owner or operator must be eligible under TWC rules and the items performed must be allowable and reasonable under the TWC rules. This document alone does not mean a person is eligible or that any costs incurred are allowable or reasonable.

TWC-0091 (10-10-90)

TWC Field Inspector

d/by Owner/Operator/Representative

Perry Williams, Inc.

P.O. Box 30206 • Amarillo, Texas 79120

WC Environmental Group Williams Contracting Williams Ditching

April 30, 1993

Texas Water Commission Attn: Tom Canode 1019 N. Duncanville Road Duncanville, Texas 76116-2201

Dear Mr. Canode,

We would like to have the 30 day construction notification waived in order to begin removal operations of three (3) 10,000 UST's located at BX Service Station - Carswell AFB, Fort Worth, Texas. We anticipate removal operations to begin May 13, 1993.

Thank you for your consideration.

Sincerely,

Perry G. Williams

President

PGW/tf

UNDERGROUND STORAGE TANK (UST) CONSTRUCTION NOTIFICATION FORM

This form is provided to assist UST owners in complying with the construction notification requirements of TWC Rules, 31 TAC Chapter 334. The completion and filing of this form within the prescribed time should satisfy these requirements.

TYPE OF CONSTRUCTION: (Indicate all t Installation Addition	
	X Removal Other (Specify)
Replacement Improvement FACILITY LOCATION INFORMATION:	Abandonment 3. OWNER INFORMATION:
Facility Name: BX Service Station	Owner: U.S. Air Force
Address/Location: 7SG/CEU Carswell AFB	Representative: Master Sergeant Bailey
76127-5000	Title: Environmental Coordinator_
County: Tarrant City: Fort Worth	Address: 7SG/CEU Carswell AFB
UST Facility No. (If Known): 1518	City/State/Zip: Fort Worth. Texas 76127-5
Telephone: 817-782-6258	Telephone: 817-782-6258
UST CONSULTANT INFORMATION:	5. UST CONTRACTOR INFORMATION:
Company: WC Environemental Group	Company: Perry Williams, Inc.
Representative: John F. Drake	Representative: Perry Williams
Address: 2700 S. WIIson	Address: 2700 S. Wilson
City/State/Zip: Amarillo, Texas 79103	City/State/Zip: Amarillo, Texas 79103
Telephone: 806-373-5820	Telephone: 806-373-5820
	DUST ACTIVITY: (Describe all new or replacement
	iclude closure procedures for UST abandonments or
removals. Attach information as appropriate	.)
and dispenser equipment all located at C) 10,000 gallon UST , all associated piping arswell AFB, Texas Facility #1518
	arswell AFB, Texas Facility #1518
and dispenser equipment all located at (arswell AFB, Texas Facility #1518
and dispenser equipment all located at Control of the second seco	arswell AFB, Texas Facility #1518
and dispenser equipment all located at Control of the SCHEDULE/DATES FOR PROPOSED COntrol of the Scheduled for 5-13-93	DATE:4-30-93
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment	DATE:4-30-93
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment	DNSTRUCTION: DATE: 4-30-93 al Consultant
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment	DATE:4-30-93
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment MAIL COMPLETED FORM TO: * * * * * Texas Water Commission *	DATE: 4-30-93 al Consultant FOR TWC STAFF USE ONLY
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment MAIL COMPLETED FORM TO: * * * * Texas Water Commission * Underground Storage Tank Section * Da	DNSTRUCTION: DATE: _4-30-93 al Consultant FOR TWC STAFF USE ONLY te Rec'd Type Notice:
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment MAIL COMPLETED FORM TO: * * * * Texas Water Commission * Underground Storage Tank Section * Da P.O. Box 13087, Capitol Station * Dis	DNSTRUCTION: DATE: _4-30-93 al Consultant FOR TWC STAFF USE ONLY te Rec'd Type Notice: Strict Dist. Rcp
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment MAIL COMPLETED FORM TO: * * * Texas Water Commission * Underground Storage Tank Section * Da P.O. Box 13087, Capitol Station * Dis	DNSTRUCTION: DATE: _4-30-93 al Consultant FOR TWC STAFF USE ONLY Type Notice:
SCHEDULE/DATES FOR PROPOSED CO Removal scheduled for 5-13-93 SUBMITTED BY: John F. Drake Title & Company: Geologist/Environment MAIL COMPLETED FORM TO: * * * Texas Water Commission Underground Storage Tank Section * Da P.O. Box 13087, Capitol Station * Dis Austin, Texas 78711-3087 * Re	DATE:

UNDERGROUND STORAGE TANK (UST) CONSTRUCTION NOTIFICATION FORM

This form is provided to assist UST owners in complying with the construction notification requirements of TWC Rules, 31 TAC Chapter 334. The completion and filing of this form within the prescribed time should satisfy these requirements.

1.	TYPE OF CONSTRUCTION: (Indic	cate all that apply.)
•	Installation Addition	
	Replacement Improve	ment Abandonment
2.	FACILITY LOCATION INFORMAT	ION: 3. OWNER INFORMATION:
· ·	Facility Name: BX Service Station	Owner: U.S. Air Force
	Address/Location: 7SG/CEU Carswell	AFB Representative: Master Sergeant Bailey
	76126-	5000 Tille: Environmental Coordinator
	County: Tarrant City: Fort Wor	th Address:7SG/CEU Carswell AFB,
	UST Facility No. (If Known): 1518	City/State/Zip: Fort Worth, Tx. 76127-500
	Telephone: 817-782-6258	Telephone: 817-782-6258
4.	UST CONSULTANT INFORMATION	
	Company: WC Environmental Group	
	Representative: John F. Drake	Representative: Perry Williams
	Address: 2700 S. Wilson	Address: 2700 S. Wilson
	City/State/Zip: Amarillo, Tx. 7910. Telephone: 806-373-5820	
· /.		
. 6.	Table and other UST automorphism	OPOSED UST ACTIVITY: (Describe all new or replacement
		ients. Include closure procedures for UST abandonments or
	removals. Attach information as app	oropriate.)
	Permanently remove and	dispose of three (3) 10,000 gallon UST, all
	associated mining and	dispenser equipment, all located at Carswell AFB, Tx,
	Facility #1518	dispenser equipment, all located at oarswell hib, ix,
		·
7.	SCHEDULE/DATES FOR PROPO	SED CONSTRUCTION:
	Removal scheduled for	
8.	SUBMITTED BY: John F. Drake	DATE: 4-30-93
	Title & Company: Geologist/Environment	onmental Consultant
9.	MAIL COMPLETED FORM TO:	
	ESTABLISHED FORM TO.	* FOR TWC STAFF USE ONLY
	Texas Water Commission	FOR TWC STAFF OSE ONLT
		# Due Double Process
	Underground Storage Tank Section	* Date Rec'd Type Notice:
	P.O. Box 13087, Capitol Station	* District Dist. Rep.
	Austin, Texas 78711-3087	* Remarks
		*
		Logged by: Date:
		4.1

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				ETROLE	UM ST	ORAGE	TANKS			FACI	YTI	IN COUN	TY OROER		159	43
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		STATUS: 1								SUB: /	SPILL:	/	CORR:		
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UST-DTH :															
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UST-PIPE:		SIZE: 10	DOOD INSTALL:	/1986	CNTN:	1	MAT: 2	REL:	1/6				CORR:	/	
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UST-OTH			***************************************		•						
	1064-3	STATUS: 1	0/ 0/ 0		CNTN: / /	MAT: 1	REL: 1/6	SUR - 2/	SPILL:	/	CORR: 3/A/
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	1084-4	STATUS: 1	0/0/0		CNTN: / /	MAT: I	REL: 1/6	SUR - 2/	SPILL:	/	CORR: 3/A/
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	1140-1	STATUS: 4	2/ 1/82		CNTN: / /	MAT: I	REL: /	SUB: /	SPILL:	/	CORR: 7/ /
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	1194-1	STATUS: 1	0/0/0		CNTN: / /	MAT: 1	REL: 1/6			1	CORR: 3/ /
S UST-PIPE		SIZE:	2000 INSTALL:	/1047		MAT:	REL: 1/8	JUD. ,	37.00.	,	CORR: 7/
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	1411-1	STATUS: 1	0/0/0		CNTN: 1/ /	MAT: 1	REL: 1/6		SPILL:	4/	CORR: 7/ /
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UST-OTH		3146:	TOO THETALE: OF	/ 1333	CHIN: 17	MAI: I	MEL: 1/8				CORR. 17
	1411-2	STATUS: 1	0/ 0/ 0		CNTN: 1/ /	MAT: 1	REL: 1/	SUB: 2/	SPILL:		CORR: 7/ /
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	1411-3	STATUS: 1	0/ 0/ 0		CNTN: 1/ /	MAT: 1	REL: 1/	SUB: /	SPILL:		CORR: 7/ /
UST-PIPE		SIZE:		/	CNTN: 1/	MAT: 1	REL: 1/	305; /	SFILL:	٠,	CORR: 7/
UST-OTH		3126:	2000 INSTALL:	/ ****	CH N : 17	MAI: I	REL: 17	JP - 4			CORR: "
	1425-1	STATUS: 1	0/0/0		CNTN: / /	MAT:	REL: 1/6	SUB: 3/	SPILL:	1	CORR: 7/ /
UST-PIPE		SIZE:					REL: 1/6	308: 37	SPILL;	,	CORR: 7/
UST-PIPE		3116:	1000 INSTALL: 01	1/1322	CHIN: /	MAT:	REL: 1/4				CORR: 17
	1427-1	STATUS: 4	4/11/90		CNTN: / /	MAT:	REL: /	SUB: 3/	SPILL:	/	CORR: 7/ /
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	1516-1	STATUS: 1	9/ 9/ 9			MAT: 2	REL: 1/8	****	SPILL:	/	CORR: C/ /
UST-PIPE		SIZE:		/	CNTN: / / CNTN: /	MAT: 2	REL: 1/6	BUB: 2/	SPILL	,	CORR: /
USTOTH		2116:	TOOGO INSTALL:	/19/2	CHIN: /	MAI: 2	REL: 1/6				CORR: /
		STATUS: 1	0/ 0/ 0				REL: /		SPILL:	,	CORR: C/ /
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	1518-3	STATUS: 1	0/0/0		CNTN: //	MAT: 2	REL: /	SUB: 2/	SPILL:	,	. CORR: C/ /
UST-PIPE		SIZE:	10000 INSTALL:	/1872	CHIN: /	MAT: 2		505. Z/	371LL:		CORR: /
UST-OTH		-115:	10000 INSTALE:	, 10/2	CHIN: /	MAI: 2	MEL: /			-	work: /
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' UST-PIPE					CNTN: / /			BU#: 3/	SPILL:	, .	CORR: C//
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USTOTH											
	: 1628-1	STATUS: 1			CNTN: //	MAT: 1	REL: 1/6	308: 2/	SPILL:	/	CORR: 3/ /
USTOPIPE		SIZE;	1000 INSTALL:	/1982	CNTH: /	MAT: 1	REL: 1/6				CORR: 7/
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S T :		STATUS: 1	0/ 0/ 0	CNTN:	11	MAT:	REL: 1/6	SUB: 3/	SPILL:	,	CORR: 7/ /
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ST-0TH ;											
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ST-PIPE:		SIZE:	275 INSTALL: /3993	CNIN:	/	MAT;	REL: /				CORR: 7/
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			0/ 0/ 0				REL: 1/6		SPILL;	/	CORR: 7/ /
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		STATUS; I	01.01.0	CNTN:				SUE: 3/	SPILL:	,	CORR: 3/A/
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ST-PIPE:		SIZE:	15000 INSTALL: /9999			MAT:	REL: 1/6			-	CORR: 7/
ST-OTH :					•						
		STATUS: 1		CNTN:				SUB: 3/	SPILL:	/	CORR: C/ /
T-PIPE:		SIZE:	15000 INSTALL: /8889	CNTN:	/	MAT:	REL: /				CORR: /
T-0TH :						BLACK					
T-PIPE:			0/ 0/ 0 					SU8: 3/	SPILL:	/	CORR: C/ / CORR: /
T-DTH :		3142;	12000 INSTACE: \4333	LNIN:	,	MAT: Black	REL: /				CORR: /
		STATUS: I	0/ 0/ 0	CNTN .	, ,	MAT:	BE1 - 1/5	SUB: /	SPILL:	,	CORR: / /
T.PIPE:			15000 INSTALL: 01/1945			MAT.	REL: 1/6			•	CORR: /
T-OTH :					•						•
ST :	3359-1	STATUS: 1	0/ 0/ 0	ENTN:	//	MAT;	REL: 1/6	SUB: 3/	SPILL:	,	CORR: 7/ /
ST-PIPE:		SIZE:	2000 INSTALL: 01/1979	CNTN:	7	MAT:	REL: 1/6			-	CORR: 7/
ST-OTH :					•						
			0/ 0/ 0	CNTN:		MAT;		SUB: 3/	SPILL:	/	CORR: 7/ /
T-PIPE:		SIZE:	5000 INSTALL: 01/1978	ENTN:	/	MAT:	REL: 1/6				CORR: 7/
ST-OTH :											
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ST.OTH :		2115:	500 INSTALL; 01/1978	ENTN:	/	MAT:	REL: 1/6				CORR: 7/
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į.	TEXAS WATER COMMISSION - UNDERGRO	UND STORAGE TANK R	EGISTE ATTON FORTW
-	FOR Ploase Mail UST Registration Section, PST Division	;: <u>.</u>	009696
~	USE Completed Texas Water Commission IN Form To; P.O. Box 13087 - Capitol Station Austin, TX 78711-3087	Tax ID Number (Optional)	Owner ID Humber (II known) 04532
	I. OWNEH INFORMATION	II. FACILITY	INFORMATION
	Owner Name U.S. Air Force	Facily Name BX Service St	ation #1518
7	Malking Address 7.SG/CEU Carswell AFB	Physical Address 7SG/CEU CATSW	vell AFB
7	Fort Worth Bull X 76127-50		TX 76127
्र	County	County Tarrant	
	Contact Person Telophono	Comed Person	Telephone (817) 782-6258
	Master Sergeant Bailey (817) 782-6258	Master Sergeant Bailey	(017) 762-0230
	TYPE OF OWNER Private or Corporate State Government	TYPE OF FACILITY (mark all that	apply) Witolosaio
	Local Government	Fleet Refueling	Farm or Residential
	Location of Records	Industrial, Chemical,	Aircraft Rolubling
	(Il off-site) Address, City, State	or Menutecturing Plant Other (please specify) Mili:	tary Installation
- '	Custodian of Records Telephono	Number of Underground Tanks at Tive Facility	Number of Aboveground Tanks at This Facility
1	III. REGISTE	RATION STATUS	Control December Mongration
	If this is the tirst time that this facility has book registered, mark here: ORIGINAL FORM	if this is an amendment (e.g., change, location name change) to a form the oucly filed with the TWC, mark	nge or UST FORM
	***OTE: If this is an amendment to a UST form that has already been filed v (attach additional sheets if necessary). Please include dates, name Four (4) 10,000 gallon fiberglass UST's	nee, addressee, phone numbers and a	ny other pertinent information.
	Amarillo, Tx. 79120 (806) 373-5820		
	IV. FINANCIA	RESPONSIBILITY	u (Alamana and an
	COMPLIANCE DATE (mark one)		
	Sept. 29, 1989 🔲 Oct. 26, 1989 🖂	April 26, 1990	Ool. 26, 1900
	FINANCIAL RESPONSIBILITY MECHANISM (mark all that apply)		
			Surery Bond
	Guarantee Salf Insured Other (please specify)	PST Remodiation Fund [Slandby Trust Fund
_	V. INSTALLE	R CERTIFICATION	CONTRACTOR AND THE SECOND SECOND
i	NOTE: This section must be completed and signed by the installer. Leave	blank if no installation activity is involved	4.
-	I certify that the information provided concerning recent installations is true to	the best of my belief and knowledge:	•
	Was tank testing completed during and siter installation?	No	
	Installation Company Name (print)		on Number
	Installar's Name (print)		bor
•	Installor Signature	D:	ile Signed
٠.	VI. OWNER	CERTIFICATION	
	Illy Under penalty of law that I have personally by and and and are secured		
	ary of those individuals immediately responsible for obtaining the information	on. I bollove that the submitted informati	ion is true powers and semales.
	Owner or Owner's Authorized	our i poitava fulli fula Endultisa luioiwsti	ion is true, accurate, and complete.
	Owner or Owner's Authorized Representative (print) U.S. Air Force	our i poitava fulli fula Endultisa luioiwsti	ion is tiub, accurate, and complete. Aval Resource Planner

VII. DESCRI JON OF	-371-0340 HMSV ID /SID/SHM	Jul 23 9	10:49 No	.0025RQ0350
Tank ID (e.g. 1, 2, 3 or A, B, C)	Tank A	Tank B	Tank C	Tank D
TANK STATUS Tank Installation Date (monthlyaer) Tank Capacity (gallons) 1. Currently in Use 2. Temporarily Out of Service (date) Empiled (Yes/No) 3. Formanonity Abandoned in-place (date) (must be filled with sand or concrete, etc.) 4. Pormanently Removed from the Ground (date)	10,000 1.	10,000 1.	10.000 1.	10,000 1.
UST CONSTRUCTION AND CONTAINMENT 1. Single Wall (mark all that apply) [X] 2. Double Wall 3. External Jacket System 4. Excavation/Trench Uner System 5. Piping System: a. Preferenzed b. Buction c. Gravky 6. Other (please specify)	Yank Piping 1.	Tank Piping 1,	Tank Piping 1. 2. 3. 4. 4. 4. 4. 4. 6. 6.	Tank Piping 1.
MATERIAL OF CONSTRUCTION 1. Steel 2. Fiberglass-Reinforced Plastic (FRP) 3. Composite (steel w/FRP laminate) 4. Concrete 5. Other (please specify)	Tank Piping 1.	Tank Piping 1.	Tank Piping 1.	Tank Piping 1.
RELEASE DETECTION (mark all that apply) 1. Vapor Monitoring 2. Groundwater Monitoring 3. Monitoring Above Excavation Uner 4. Automatic in-Tank Monitoring & Inventory Control 5. Interstitial Monitoring for Double Walt USTs 6. Tightnose Testing 7. Inventory Control 8. Unknown/None 9. Line Leak Detectors 10. Other (please specify)	Tank Piping 1.	Tank Piping 1.	Tank Piping 1.	Tenk Piping 1.
SUBSTANCE STORED 1. Empty 4. Kerosene 2. Gasoline 5. Used Oll 3. Diesel 6. Now Oll 7. Other Petroleum Product (please specify) 6. Hazardovs Substance 8. Name of Principal CEROLA Substance 5. Chemical Aberract Service (CAS) No. 6. Mixture of Hazardovs Substance 9. Mixture of Petroleum & Hazardovs Substance 10. Other (please specify)	1.	1.	1.	1. D 4. D 2. D 5. D 7. 8. D 6. D 7. D 6. D 7. D 7. D 7. D 7. D 7
SPILL AND OVERFILL PREVENTION 1. Tight-Fill Fitting (mark all that apply) (3) 2. Spill Containor/Liquid-Tight Sump 3. Automatic Overfill Device: a. Shul-Off Valve b. Flow Resultor Valve c. High Lavel Alarm 4. Unknown/None	1, D D D D A	1. 2. 3. B. 6. C.	1. 2i 3. a. b. e. C	1. 0 DDD 2. a. b. c. 0
CORHOSION PROTECTION 1. Existnal Coatings: (mark all that apply) [2] a. Painted (e.g. asphaltic) b. Distactic (e.g. coat but epoxy) c. Fiberglass-Reinforced Plastic d. Taped/Wrapped Piping 2. Internally Lined Tank (e.g. spoxy resin) 3. Cathodic Protection System 4. Composite Tank (stool w/FAP taminate) 5. Noncorredible Malorial Construction 6. Electical tectalion 7. Unknown/None	Tank Piping 1. a. D.	Tonk Piping 1. 2. 5. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tank Piping 1. a. b. 0000 2. 3. 4. 5. 6. 7.	Tank Piping 1. a, D. D. D. C. D. D. C. D. D. C. D.

APPENDIX I

U.S. Army Corps of Engineers



FORT WORTH DISTRICT, CORPS OF ENGINEERS 701 CAMP WISDOM ROAD GRAND PRAIRIE, TEXAS 75052-2404

159 54

REPLY TO ATTENTION OF:

May 6, 1993

North Texas Area Office

Perry Williams Post Office Box 30286 Amarillo, Texas 79120

Gentlmen,

Reference Delivery Order No. 2 on your Contract No. DACW63-92-D-0046, Indefinite Quantity Contract for Removal and Disposal of Underground Storage Tanks, Various Locations in Texas and Louisiana (Zone 3).

This letter serves as your authorization to begin work on Deliver Order No. 2. You are requested to acknowledge receipt of this letter in the space provided below and return an acknowledged copy of this letter to me at the following address:

Area Engineer North Texas Area Office 701 Camp Wisdom Road Grand Prairie, Texas 75052-2404

You are reminded that, in accordance with the terms of Delivery Order No. 2, you have thirty (30) calendar days from receipt of this letter to complete this work.

Sincerely,

Thomas E. Trainer, P. E. Authorized Representative

of the Contracting Officer

Receipt is acknowledged:

Jame Manne

<u>President</u> Title

<u>5-10-93</u>

APPENDIX J

Miscellancous Correspondence

LEAKING UNDERGROUND STORAGE TANK

8 April	Environmental Management Flight notified of "Something bubbling into the Trinity River" Base personnel investigated site and found some type of petroleum product coming up into the water. CE placed booms around the site and another down stream to contain product. Release into Trinity River reported to Texas Water Commission (TWC) by Mr Lance Key, CE Environmental Flight. CE personnel have since then continued to monitor booms.
NOT SURE	CE Personnel notified of leak into Trinity River since they have a fuel line which runs near the Trinity informed Carswell that the line was not being used, however, they investigated their pipeline and notified Carswell that they did not feel their pipeline was the problem.
16 April	Notice of Violation issued by TWC for leak in Trinity River.
28 April	CE notified TWC of actions being taken by Carswell to obtain money and our plan to install additional monitoring wells and conduct electro-magnetic survey.
15 May	\$50,000 funds received from Base Disposal Agency for preliminary investigation.
24 June	Blank Purchase Agreement set-up with multiple Environmental Service companies.
29 July	Order issued to Maxim Engineering and Magna Scan to begin investigation.
11 Aug	Maxim Engineering installed two monitoring wells. Soil and water sample analysis to be received 24 Sept.
13 Aug	Underground investigation conducted by Magna Scan. Results to be received 25 Sept.
27 Aug	Mr. Paul, BX gas station, requested leak test on one tank due to 900 gallon variance in their recordkeeping and due to inconclusive results from their own leak tests.
2 Sept	UST Services, Inc. leak tested suspect tank. Tank was determined leaking due to inability to fill the tank to full. Tank was emptied.
4 Sept	TWC visited site to investigate the tanks and the monitoring wells. They requested we do an immediate action on the free product found in the Monitoring Well North of the Tanks.
8 Sept	CE Personnel pumped fluid out of monitoring well next to the service station North of the tanks.
9 Sept	TWC issued 9-Point corrective action letter.

concentration, all the way to the base boundary fence. Mr
Key recommended and began actions to place monitoring
wells on the other side of the Trinity River.

- 11 Sept CE dipped well across from the gas station and found no free product.
- 11 Sept UST Services Inc. verbally confirmed two additional tanks leaking, at a rate of .75 gallons per hour, and one tank tight. Lines to pumps were not tested. Emptied leaking tanks.
- 14 Sept CE Personnel once again pumped fluid out of monitoring well next to the service station North of the tanks.
- 14 Sept Randy Varner notified Duncanville office of TWC, Mr. Knode, of the two additional tanks that are leaking.
- Meeting with two contractors and the Corps of Engineers on contract to remove free product from the Service Station as well as determine the extent of contamination.

 Contractors will send their proposals to LGLC ASAP and both indicated they would be able to start the week of 21 September, if desired.
- 15 Sept Notified TWC (Mr Tom Knode) of tank suspected of leaking by UST Services leak testing. Told TWC that we have also emptied this tank pending further investigation.
- 16 Sept Capt Layton suggested it would be wise to call the TWC on a daily basis with an update of the BX service station situation.
- 16 Sept Called TWC and talked to Mr Knode. Informed him of our meetings with contractors and that they will pump free product out and assess extent of contamination.

Called out to Base at 1800 with Lt Manning by Lt Col Gonzalez. Col Szafranski wants meeting on BX Service Station at 0830, 17 Sept. JA briefed Col Szafranski that in talks with regulators they felt we were not doing enough to respond to situation. We worked on timelines stemming from 8 April when the leak into the Trinity River was first discovered.

- 17 Sept Capt Van Shaack notified Duncanville office, Mr. Knode, of the sequence of events on the gas station tanks. Seemed to be satisfied with the progression of events.
- Meeting with Col Szafranski, Col Gross, JA and AAFES to discuss BX Service Station. It was decided to empty fourth tank and close BX service station. Col Szafranski emphasized importance of JA and CE coordinating with each other. The main purpose of meeting was to talk of events from 31 Aug since leak was discovered and discussed our plan.
- 17 Sept Took SOW to LGLC. Mr McNeil feels a BPA is the way to go. Requested to meet with Mr Varner on 18 Sep when he returns from TDY.
- 17 Sept Drafted MSG to ACC/CEV and faxed copy also. Message asked 47

party lead.

- 17 Sept CE personnel check monitoring wells. Sites across road 159 53 OK, no fuel. Site North of USTs 3'1" water, 2" fuel.
- 18 Sept Met with contracting and decided BPA was best way to go for response. Reaccomplished a shorter statement of work.
- 21 Sept SOW for BPA went to contracting.
- Received call from Capt McGhee, ACC/CEV, about priority message we sent. I told him the main reason we were asking requesting state-lead possibility was because we could only do a limited amount to respond or else we would be getting into BRAC money. Capt McGee stated that after talking to Lt Manning, he feels they can separate this from IRP funds and use different money.
- 21 Sept Mr Tom Knode called referencing leak of UST at Bldg 1628 which was called on in 18 Sept. I also told him that we had SOW at contracting for response to UST leak. He told me to contact tWC before any work starts. Permits would not be required unless there is a surface discharge.

Questions in my mind:

In the beginning (approx 8 April) I know we notified several agencies of leak into Trinity River. Exactly Who all did we notify?

When did we request funds to investigate and what priority was this given by Carswell? (i.e. Capt Reed's ECAMP paperwork show the wing made this Priority 3)

24 June - What is Blank Purchase Agreement for?

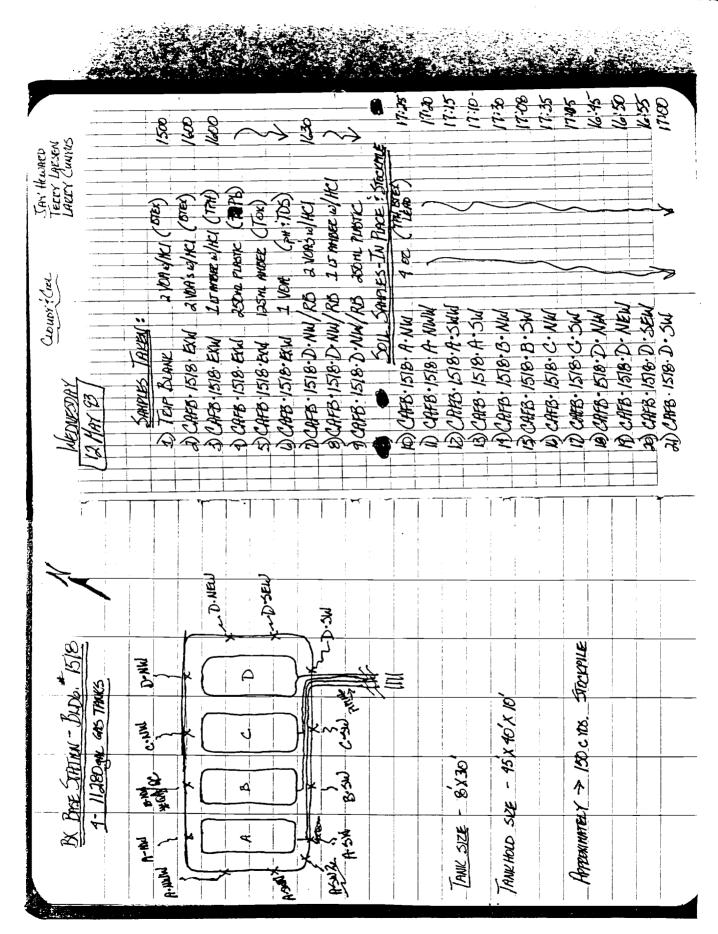
Have we ever requested copies of fuel reports from AAFES? If So what did they indicate and timelines?

- 11 & 13 August Events What were preliminary findings?
- 27 August to 2 September Was Leaking tank emptied?
- 2 September Approx how much product was put into tank? Approx how much "disappeared"?
- 9 September What have we done about/on Letter issued by TWC?
- 11 September Why was this done? Who requested it?

APPENDIX K

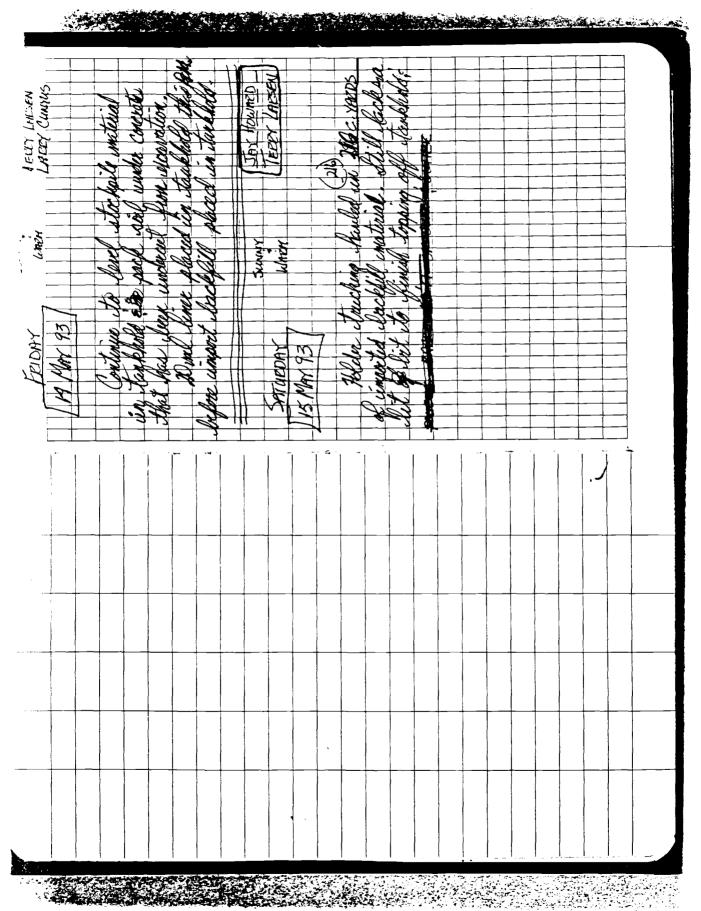
Xerox Copies of Field Site Book

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APPENDIX L

Original Lab Results/Chains of Custody



Client: Perry Williams, Inc.

Perry Williams, Inc. P. O. Box 30206 Amarillo, TX 79120

Date Received: 05/13/93 Time Received: 09:00 Date Sampled: 05/12/93

Chain of Custody #: 1376 Report Date: 05/14/93

431 Isom Road • Suite 135 • San Antonio, Texas 78216-5141 • (512) 340-8121

CHEMICAL ANALYSIS REPORT

Total BTEX (PPM)	<.03	
Xylenes (PPM)	<.015	
Ethylbenzene (PPM)	<005	
Toluene (PPM)	<.005	
Benzene (PPM)	<.005	
BTEX Analysis Date	05/13/93	
Sample	Water	
Sample Description	TRAVEL BLANK	
Chemron #	27342	

Analytical Methods: BTEX in Soil or Water · 8020

Approved By:

54

CHEMRON INCORPORATED

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Client: Perry Williams, Inc. P. O. Box 30206 Amarillo, TX 79120

Date Received: 05/13/93 Time Received: 09:00 Date Sampled: 05/12/93

Client's Job #: D.0.0002/1518 Chain of Custody #: 1376 Report Date: 05/14/93

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample	BTEX Analysis Date	Benzene (PPM)	Toluene (PPM)	Ethylbenzene (PPM)	(PPM)	Total BTEX (PPM)	TRPH Analysis Date	TRPH (PPM)
27343	CAFB-1518-EXW	Water	05/13/93	.570	3.0	1.8	20.	25.37	05/14/93	14.
27344	CAFB-1518-D-NW/RB	Water	05/13/93	<.005	<.005	<.005	<.005	<0.02	05/14/93	<5
55	Approved By:									

Analytical Methods: BTEX in Soil or Water - 8020; TRPH in Water - 418.1; TRPH in Soil - 9071/418.1



431 Isom Road • Suite 135 • San Antonio, Texas 78216-5141 • (512) 340-8121

Client: Perry Williams, Inc.

P. O. Box 30206

Amarillo, TX 79120

Client's Job #: D.O.0002/151

COC #: 1376

Report Date: 05/17/93

Date & Time Received:

05/13/93, 09:00

Date Sampled: 05/12/93

CHEMICAL ANALYSIS REPORT

inemron #	Sample Description	Date Analyzed	Total Lead (PPM)
7343	CAFB-1518-EXW	05/14/93	< .1
27344	CAFB-1518-D-NW/RB	05/14/93	< .1

oproved By:

Analytical Methods: Solids/Soils - 3050/7420; Water - 3005/7420 or 7421



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Client: Perry Williams, Inc.

P. O. Box 30206

Amarillo, TX 79120

Client's Job #: D.O.0002/151

COC #: 1376

Report Date: 05/17/93

Date & Time Received:

05/13/93, 09:00

CHEMICAL ANALYSIS REPORT

nemron	Sample Description	Sample Matrix	Date Analyzed	рн
-7343	CAFB-1518-EXW	Water	05/17/93	6.7
pproved	By:		_	

Analytical Methods: 9040



431 Isom Road • Suite 135 • San Antonio, Texas 78216-5141 • (512) 340-8121

:lient: Perry Williams, Inc.

P. O. Box 30206

Amarillo, TX 79120

Client's Job #: D.O.0002/151

COC #: 1376

Report Date: 05/18/93

Date & Time Received:

05/13/93, 09:00

Date Sampled: 05/12/93

CHEMICAL ANALYSIS REPORT

hemron #	Sample Description	Date Analyzed	Total Dissolved Solids (MG/L)
7343	CAFB-1518-EXW	05/17/93	780.

oproved By:

Analytical Method: 160.1



Client: Perry Williams, Inc. P. O. Box 30206

Amarillo, TX 79120

Client's Job #: D.O.0002/151

COC #: 1376

Report Date: 05/26/93

Date & Time Received:

05/13/93, 09:00

Date Sampled:

05/12/93

CHEMICAL ANALYSIS REPORT

hemron #	Sample Description	Sample Matrix	Date Analyzed	TOX (MG/KG)
27343	CAFB-1518-EXW	Water	05/26/93	1.3

Approved By:

Analytical Method: 9020



Client: Perry Williams, Inc. P. O. Box 30206 Amarillo, IX 79120

Client's Job #: D.0.0002/1518 Chain of Custody #: 1376 Report Date: 05/26/93

QUALITY ASSURANCE REPORT

Description / Parameter	Matrix	Analysis Date	Spike Concentration	Analyzed Value	Background Value	% Recovery	Control Lower	Control Limits Lower Upper	Relative % Difference	Control Limit
MS - Benzene	Water	05/13/93	20	23	< 5	109%	75%	125%		•
MS - Toluene	Water	05/13/93	20	25	5	100%	75%	125%		
MS - Ethylbenzene	Water	05/13/93	20	22	< 5	110%	75%	125%		
MS - Xylenes	Water	05/13/93	09	29	< 5	109%	75%	125%		
MSD - Benzene	Water	05/13/93				110%			%0	< 30%
MSD · Toluene	Water	05/13/93				104%			%7	< 30%
MSD - Ethylbenzene	Water	05/13/93				110%			%0	< 30%
MSD - Xylenes	Water	05/13/93				105%			2%	< 30%
MS - TRPH	Water	05/14/93	3.87	3.29	< .5	85%	75%	125%		

Concentration Units: Soil / Sediments - mg/kg and Water - ug/L

CHEMRON INCORPORATED

431 Isom Rd., Suite 135 San Antonio, TX 78216 (512) 340-8121

CHAIN OF CUSTODY ORIGINAL

:# 000 :--

CHAIN OF CUSTODY RECORD

(806) 373-5820

Phone #

FAX #: 79103 (806) 371-0340

Tx.

Address: 2700 S. Wilson - Amarillo,

Project Number: # 0002

Project Location: BUD6. # 1518

Project Manager: Perry Williams, Inc.

CARSURUL AFB

Project Name:

1 where more with REMARKS 1 und more w/HC/ 73 2 VOR'S 2/15 2 UDA'S W/ HT. 1. 11dA'S W/HC 250 HL PURSTL. 125 hr AMBER 250Nd PURSTL If No, Explain If No, Temp. If Yes, Amt. ŝ Yes ANALYSIS Additional comments: Type of Container Properly Sealed Chilled to 40°F Headspace \mathcal{K}_{i} No. of Containers ~ Remarks: FIELD DESCRIPTION CAFB-1518-D-NW/RB CAFB-1518-D-WW/RB Received for Laboratory by: Signature CARB-1518-D-NIW Received by: [Signature] Beceived by: [Signature] Received by: [Signature] Received by: Angnature PAREL BRANK CAFB ISIB EXW CAFB-1518- EXW CAFB 1518 EXW CAFB-1518-EXW CAFB-1518-EYW 0900 19:00 FIELD 1D# Time Time Time Tine 5/12/93 Date Date Boring Grab Composite [J'M'S] Matrix 3 88 1600 83 Sampling Time Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Relinquished By: [Signature] 2/1/2 Signatura Date Relinquished by 27342 27343 LAB USE 27343 27343 ONLY 27343 27343 27344 27344 77344 # $\overline{61}$



Client: Perry Williams, Inc. P. O. Box 30206 Amarillo, TX 79120

Date Received: 05/13/93 Time Received: 09:00 Date Sampled: 05/12/93

Chain of Custody #: 1377 Report Date: 05/17/93

Client's Job #: 0.0.0002/1518

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample	BTEX Analysis Date	Benzene (PPM)	Toluene (PPM)	Ethylbenzene (PPM)	Xylenes (PPM)	Total BTEX (PPM)	TRPH Analysis Date	TRPH (PPM)
27345	CAFB-1518-A-NW	Soil	05/13/93	4.	4. ^	7 . ×	< 1.2	<2.4	05/13/93	< 10.
27346	CAFB-1518-A-NWW	Soil	05/13/93	4. ^	4. ^	7. ×	< 1.2	4.5>	05/13/93	< 10.
27347	CAFB-1518-A-SWW	Soil	05/13/93	4.	4. ^	7. >	< 1.2	4.2 >	05/13/93	< 10.
65 875,52	CAFB-1518-A-SW	Soil	05/13/93	4. ^	7.	7. v	< 1.2	<2.4	05/14/93	. 79
27349	CAFB-1518-8-NW	Soil	05/14/93	7. >	3.8	19.	.06	112.8	05/14/93	.99
27350	CAFB-1518-B-SW	Soil	05/14/93	4.	7. >	5.	19.	19.5	05/14/93	200.
27351	CAFB-1518-C-NW	Soil	05/14/93	7.1	92.	. 44.	220.	363.1	05/14/93	- 77
27352	CAFB-1518-C-SW	Soil	05/14/93	7. >	4. ^	7. >	. 79	0.49	05/14/93	63.
27353	CAF8-1518-D-NW	Soil	05/14/93	7. >	7. >	7. >	1.5	1.5	05/14/93	28.
27354	CAFB-1518-D-NEW	Soil	05/14/93	11.	110.	7.07	250.	411.4	05/14/93	19.

Analytical Methods: BTEX in Soil or Water - 8020; TRPH in Water - 418.1; TRPH in Soil - 9071/418.1

Approved By:

8 1

159



Client: Perry Williams, Inc.

P. O. Box 30206

Amarillo, TX 79120

Client's Job #: D.O.0002/151

COC #: 1377

Report Date: 05/17/93

Date & Time Received:

05/13/93, 09:00

Date Sampled: 05/12/93

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Date Analyzed	Total Lead (PPM)
r-			
7345	CAFB-1518-A-NW	05/14/93	10.
27346	CAFB-1518-A-NWW	05/14/93	10.
7347	CAFB-1518-A-SWW	05/14/93	11.
27348	CAFB-1518-A-SW	05/14/93	< 5.0
_7349	CAFB-1518-B-NW	05/14/93	5.2
7350	CAFB-1518-B-SW	05/14/93	15.
27351	CAFB-1518-C-NW	05/14/93	< 5.1
7352	CAFB-1518-C-SW	05/14/93	< 5.3
27353	CAFB-1518-D-NW	05/14/93	< 5.1
7354	CAFB-1518-D-NEW	05/14/93	< 5.1

pproved By:

Analytical Methods: Solids/Soils - 3050/7420; Water - 3005/7420 or 7421



Client: Perry Williams, Inc. P. O. Box 30206 Amarillo, IX 79120

Date Received: 05/13/93 Time Received: 09:00 Date Sampled: 05/12/93

Client's Job #: D.O.0002/1518 Chain of Custody #: 1378 Report Date: 05/17/93

CHEMICAL ANALYSIS REPORT

(PPM)	630.	· 10.	.7.	18.	31.	41.	· 10.
TRPH Analysis Date	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93
Total BTEX (PPM)	1119	<2.4	34.6	18.0	18.2	99.5	3.5
Xylenes (PPM)	.096	< 1.2	33.	17.	16.	80.	3.5
Ethylbenzene (PPM)	51.	4. ^	6.	5.	1.0	16.	7° >
Toluene (PPM)	94.	7. >	.7	₹.	1.2	3.2	7.
Вепzепе (РРМ)	14.	7. ^	7. >	7.	7. >	7. >	7. >
BTEX Analysis Date	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93	05/14/93
Sample	Soil	Soit	Soil	Soil	Soil	Soil	Soil
Sample Description	CAFB-1518-D-SEW	CAFB-1518-D-SW	CAFB-1518·SPA	CAFB-1518-SPB	CAF8-1518-SPC	CAF8-1518-8-NW/QC	CAF8-1518-A-SW2
Chemron #	27355	27356	927357	4	27359	27360	27361

Analytical Methods: BTEX in Soil or Water - 8020; TRPH in Water - 418.1; TRPH in Soil - 9071/418.1

Approved By:



Client: Perry Williams, Inc.

P. O. Box 30206 Amarillo, TX 79120 Client's Job #: D.O.0002/151

COC #: 1378

Report Date: 05/17/93

Date & Time Received: 05/13/93, 09:00

Date Sampled: 05/12/93

CHEMICAL ANALYSIS REPORT

hemron #	Sample Description	Date Analyzed	Total Lead (PPM)
7,7355	CAFB-1518-D-SEW	05/14/93	< 5.5
7356	CAFB-1518-D-SW	05/14/93	< 5.5
7357	CAFB-1518-SPA	05/14/93	11.
27358	CAFB-1518-SPB	05/14/93	5.1
7359	CAFB-1518-SPC	05/14/93	5.0
27360	CAFB-1518-B-NW/QC	05/14/93	5.5
7361	CAFB-1518-A-SW2	05/14/93	5.5

pproved By:

Analytical Methods: Solids/Soils - 3050/7420; Water - 3005/7420 or 7421



Client's Job #: 0.0.0002/1518 Chain of Custody #: 1378 Report Oate: 05/26/93

Client: Perry Williams, Inc. P. O. Box 30206 Amarillo, TX 79120

Oescription / Parameter	Matrix	Analysis Date	Spike Concentration	Analyzed Value	Background Value	% Recovery	Control	Control Limits Lower Upper	Relative % Oifference	Control Limit
- Benzene	Soil	05/14/93	8.3	6.5	7. >	78%	75%	125%		
MS - Toluene	Soil	05/14/93	8.3	6.8	7. >	82%	75%	125%		
- Ethylbenzene	Soil	05/14/93	8.3	6.6	7. >	26%	75%	125%		
- Xylenes	Soil	05/14/93	25	20.075	< 1.2	80%	75%	125%		
MSO - Benzene	Soil	05/14/93				71%			%6	< 30%
- Toluene	Soil	05/14/93				77%			%9	< 30% >
MSD - Ethylbenzene	Soil	05/14/93				29%			%5	< 30%
MSO - Xylenes	Soil	05/14/93				77%			%7	< 30%
MS · TRPH	Soil	05/14/93	439	793	*5	90.9	75%	125%		
- TRPH	Soil	05/14/93				101.			10%	< 30%
- Lead	Soil	05/14/93	101.5	116.7	< 5.2	115%	75%	125%		
· Lead	Soil	05/14/93				100%			13.9	< 30% >
MS · Lead	Soil	05/14/93	104.2	104.2	< 5.1	100%	75%	125%		
MSD - Lead	Soil	05/14/93				100%			%0	< 30%
MS · Lead	Soil	05/14/93	105.8	100.5	5.5	86%	75%	125%		
MSO . Lead	Soil	05/14/93				85%			79.7	< 30%

Concentration Units: Soil / Sediments - mg/kg and Water - ug/L



Client: Perry Williams, Inc. Amarillo, TX 79120 P. O. Box 30206

Client's Job #: 0.0.0002/1518 Chain of Custody #: 1377 Report Date: 05/26/93

QUALITY ASSURANCE REPORT

			Spíke				Control Limits	Limits	Relative %	
Description / Parameter	Matrix	Analysis Date	Concentration	Analyzed Value	Background Value	% Recovery	Lower	Upper	Difference	Control Limit
MS - Benzene	Soil	05/13/93	8.3	9.9	7. >	%62	75%	125%		
MS - Toluene	Soil	05/13/93	8.3	6.7	7. >	80%	75%	125%		
MS - Ethylbenzene	Soil	05/13/93	8.3	6.5	7. >	78%	75%	125%		
MS · Xylenes	Soil	05/13/93	52	19.82	< 1.2	%62	75%	125%		
MSD - Benzene	Soil	05/13/93				78%			1%	< 30%
MSD - Toluene	Soil	05/13/93				%62			1%	< 30%
MSD - Ethylbenzene	Soil	05/13/93				77%			2%	< 30%
MSD - Xylenes	Soi (05/13/93				%62			%0	< 30%
MS - Benzene	Soil	05/13/93	8.3	6.4	7. >	77%	75%	125%		
MS - Toluene	Soil	05/13/93	8.3	9.9	4. >	262	75%	125%		
(G) Ethylbenzene	Soil	05/13/93	8.3	4.9	7. >	X.L.	75%	125%		
MS xylenes	Soil	05/13/93	25	19.62	< 1.2	78%	75%	125%		
MSD - Benzene	Soil	05/13/93				78%			7,	< 30%
MSD - Toluene	Soil	05/13/93				82%			%5	< 30%
MS - Ethylbenzene	Soil	05/13/93				%62			3%	< 30%
MSD - Xylenes	Soil	05/13/93				80%			3%	< 30%
MS - TRPH	Soil	05/13/93	387	343	< 10	88.6	75%	125%		
MSD - TRPH	Soil	05/13/93				63%			2%	< 30%
Ms - Lead	Soil	05/14/93	101.5	116.7	< 5.2	115%	75%	125%		
MSD · Lead	Soil	05/14/93				100%			13.9	< 30%
MS - Lead	Soil	05/14/93	104.2	104.2	< 5.1	100%	75%	125%		
MSD - Lead	Soil	05/14/93				100%			%0	< 30%
Ms - Lead	Soil	05/14/93	105.8	100.5	5.5	89%	75%	125%		
MSD · Lead	Soil	05/14/93				85%			4.6%	< 30%
							,	,		15
			Concentration Uni	ts: Soil / Sedimen	Concentration Units: Soil / Sediments - mg/kg and Water - ug/L	1/6n -				9
										7)

CHEMRON INCORPORATED

431 Isom Rd., Suite 135 San Antonio, TX 78216 (512) 340-8121

ORIGINAL CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

FAX #: 79103 (806) 371-0340

Tx.

Address: 2700 S. Wilson - Amarillo,

Project Number: W # 0002

Project Location: # 15/8

Perry Williams, Inc.

Project Manager:

(806) 373-5820

Phone #

UMITED

AFB

Project Name:

Sampler,Sign

(Preservation, Size/Amount, Etc.) 902 REMARKS **1**59 0 د 27.HE If No, Explain If No, Temp. If Yes, Amt. X ¥ ** × * * × ô Additional comments: \star MHL**B** Yes NOW. ANALYSIS Type of Container **Properly Sealed** Chilled to 40°F Headspace No. of Containers Remarks: FIELD DESCRIPTION CARES 1518 A-A SWIM 19FB-1518-D-NEW 1AFB-1518-D-NW Received for Laboratory by: Signature 14FB-1518-C-5W 19FB-1518-C-NW CAPB-1518-A-NW 19FB-1518. A - SW 19FB-1518-B-NW 74FB-518-B-5W CAFB-1518- A-R Received by: [Signature] Received by: [Signature] Received by: [Signature] Received by: Signature 19:00 00%0 FIELD Time Time Time Time # 01 5/4/3 Date Date Boring Grab Composite [1,w,z] xinteM 17:25 16:50 17:35 17:30 01:11 17:09 17:15 12.45 Sampling Time Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Relinguished by: [Signature] [\$Mgnature] [5/12/43] Date Relinguished by: 27345 ID# LABUSE THELT 77347 27344 7354 ONLY 27349 27350 7352 1321

CHEMRON INCORPORATED

431 Isom Rd., Suite 135 San Antonio, TX 78216 (512) 340-8121

ORIGINAL CHAIN OF CUSTODY

8/c. 1.1/8

CHAIN OF CUSTODY RECORD

Phone # (806) 373-5820

Project Manager: Perry Williams, Inc.

מאסטמע זיי				REMARKS	<u> </u>		/ * \)	(/		7			Yes No	1f Yes, Amt.	If No, Explain	If No, Temp.	1:	50 A ZJ A	oer telecon with r.c.
מאטספה בטטופטט יס אוואהט			ANALYSIS	No. of Con	11 11 0						1 x X			Remarks:	-Headspace	Properly Sealed	Chilled to 40°F	Type of Container	Additional comments:	* Assed to COC o
371-0340	948	Congress		FIELD DESCRIPTION	CAR 1518 4 20 5EU	CATB-1518-D-5W	CAFB-1518-5PA	CAKB-1518-5PB	18FB-1518-5P.	CAFB-1518- B-NW/GC	CAFB-1518-A-15W3			Received by: [Signature]	Received by: [Signature]	an voll	Received by: [Signature]		Received by: Laignature)	Received for Laboratory by: Signature
(908)	Name:	Sampler Signature:	FIFID	#									-	10.00 10.00	7-	3 0900	Time	+		Tine
FAX #		Samp	qı	Comp Gra Borin	`	7	7		<i></i>	7		+		5/12/02	Date	5/13/93	bate			Date
Wilson, Amarillo,	7000#	#1518	<u> </u>	Date Time Matrix	1493 16:55 5	05:11	1 12:40 /	\ \(\mathbb{R} \) \ \	(117:50 ()	11:30 1	17.125			pature]	LM MILD	>	nature]		gnaturej]nature]
Address: 2700 S. Wilso	Project Number	Project Location: #	# 01	LAB USE ONLY	17355 5/1	27356	27357	27359	27354	27360	27361			Relinquished by: [Signature]	Refinquished by: [Signature]	0	Relinquished by: [Signature]		Relinquished by: [Signature]	Relinquished by: [Signature]

APPENDIX M

Soil Compaction Tests



SOUTHWESTERN LABORATORIES

2200 Gravel Drive • Fort Worth, Texas 76118-7123
(817) 284-7755 • FAX (817) 589-1420

159 83

REPORT OF MOISTURE-DENSITY RELATIONS

CLIENT: Perry Williams, Inc.

Attention: Matt Montgomery

Post Office Box 30206 Amarillo, TX 79120

PROJECT: CAFB

HOLDER TRUCKING

CLIENT NO.: 5943170

REPORT NO.: 302585

DATE OF SERVICE: 5/11/93

AUTHORIZATION:

REPORT DATE: 5/17/93

SERVICES: Prepare samples delivered to laboratory and perform moisture-density

relations test to establish maximum density and optimum moisture of

the material.

PROJECT DATA

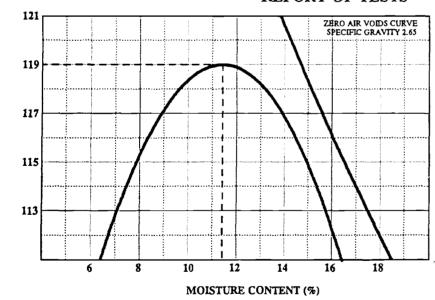
CONTRACTOR: Perry Williams, Inc.

TEST FOR: Select Fill

MATERIAL: Light Brown Sandy Clay METHOD OF TEST: ASTM D698, Method A DATE SAMPLED: 5/11/93
SAMPLED BY: CME Division

SAMPLE LOCATION: Received in laboratory.

REPORT OF TESTS



MAXIMUM DENSITY, PCF: 119.0

OPTIMUM MOISTURE (%): 11.4

LIQUID LIMIT: 27

PLASTIC LIMIT: 16

PLASTICITY INDEX: 11

Technician: Claude J. Slone, SET Field Supervisor

Report Distribution:
(2) Perry Williams, Inc.

Southwestern Laboratories, Inc.

Kemp E. Akeman, P.E. Operations Manager

70

Dry

Dens. (pcf)



SOUTHWESTERN LABORATORIES

2200 Gravel Drive • Fort Worth, Texas 76118-7123 (817) 284-7755 • FAX (817) 589-1420

159 34

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- TEST FOR: Select Fill

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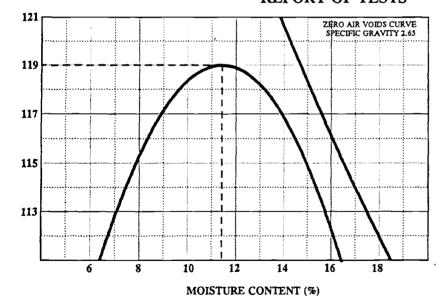
(pcf)

MATERIAL: Light Brown Sandy Clay
METHOD OF TEST: ASTM D698, Method A

DATE SAMPLED: 5/11/93
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REPORT OF TESTS



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Kemp E. Akeman, P.E. Operations Manager

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